

# San Joaquin Valley Air Pollution Control District

[www.valleyair.org](http://www.valleyair.org)

## Rule 4570 Permit Application Form Swine Confined Animal Feeding (CAF) Mitigation Measures

Facility Name:	_____		
Facility Location:	_____		
Mailing Address:	_____		
Phone No.: (____) ____ - ____	Cell Phone No.: (____) ____ - ____		
Owner/Operator:	_____	Title:	_____
Signature:	_____	Date:	_____

<b>Instructions</b>	<ol style="list-style-type: none"><li>1. Please completely fill out the tables included in the following pages of this form indicating the mitigation measures that you will be utilizing to comply with Rule 4570.</li><li>2. This application must be submitted with application filing fees totaling \$510 (\$102 per permit unit x 5 permit units). <u>If submitting this form at a workshop, please do not submit the fees at the workshop.</u> The District will send you an invoice at a later date.</li><li>3. Have you received a CMP Plan as required by District Rule 4550 or permit from the District for your existing dairy?<ul style="list-style-type: none"><li>• If yes, what is your facility number? _____</li><li>• If you have not received a CMP Plan or permit from the District, you must fill out the following application forms and attach them to this form. The application forms may be found on the District's website at <a href="http://www.valleyair.org/General_Info/AGLoader.htm">http://www.valleyair.org/General_Info/AGLoader.htm</a>:<ul style="list-style-type: none"><li>• <b>Initial Permit Application Form for Farms (Form "PA-0")</b></li><li>• <b>Swine Farm Permit Application Form (Form "Swine")</b></li><li>• <b>CMP Plan Application (Form "CMP 0")</b></li><li>• <b>CMP Swine Supplemental Application</b></li><li>• <b>Other applicable CMP supplemental application forms</b></li></ul></li></ul></li></ol>
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FOR APCD USE ONLY:

DATE STAMP:	FILING FEE RECEIVED: \$ _____ CHECK #: _____
	DATE PAID: _____
	PROJECT #: _____ FACILITY ID: _____

<p style="text-align: center;"><b>Feed Mitigation Measures</b></p>	<p><b>Swine owners/operators must select at least <u>five</u> of the following feed mitigation measures:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Feed according to National Research Council (NRC) guidelines.</li> <li><input type="checkbox"/> Feed animals probiotics designed to improve digestion according to manufacturer recommendations.</li> <li><input type="checkbox"/> Feed animals at least 5% cellulose.</li> <li><input type="checkbox"/> Feed animals a casein based diet.</li> <li><input type="checkbox"/> Feed animals an amino acid supplemented diet with 2% sucrose thermal oligosaccharide caramel.</li> <li><input type="checkbox"/> Feed animals a diet with no more than 10% crude protein with supplemented lysine, threonine, tryptophan, and methionine.</li> <li><input type="checkbox"/> Feed animals 10 ppm anthraquinone.</li> <li><input type="checkbox"/> Remove spilled feed from the facility at least once every 14 days.</li> <li><input type="checkbox"/> Remove uneaten wet feed from the housing within 24 hours of a rain event.</li> <li><input type="checkbox"/> Feed or dispose of rations within 48 hours of grinding and mixing rations.</li> <li><input type="checkbox"/> Store grain in a weatherproof storage structure from October through May.</li> <li><input type="checkbox"/> Implement an alternative mitigation measure(s), not listed above. <i>Please provide details on an attached Alternate Mitigation Measures supplemental application form.</i></li> </ul>
<p style="text-align: center;"><b>Housing Mitigation Measures</b></p>	<p><b>Swine owners/operators must select at least <u>five</u> of the following mitigation measures for each animal housing structure:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Clean animal waste from the housing at least twice every 14 days.</li> <li><input type="checkbox"/> Manage pens such that the animal waste depth in the pen does not exceed 18 inches at any time or point.</li> <li><input type="checkbox"/> Slope the surface of the pens at least 3% where the available space for each animal is 400 square feet or less. Slope the surface of the pens at least 1.5% where the available space for each animal is more than 400 square feet per animal.</li> <li><input type="checkbox"/> Install floats on the troughs or use drinkers that do not drip or another method approved by the APCO, ARB, and EPA to ensure that the water in the troughs does not intentionally or unintentionally overflow or spill onto an earthen ground.</li> <li><input type="checkbox"/> Inspect water pipes and troughs and repair leaks at least once every 14 days.</li> <li><input type="checkbox"/> Use a slatted floor system (slatted floors over deep pits or shallow flush alleys), with daily animal waste removal.</li> <li><input type="checkbox"/> Use lime or a similar absorbent material in the pens according to the manufacturer's recommendations to minimize moisture in the pens.</li> <li><input type="checkbox"/> House animals in an enclosure vented to a VOC control device with a combined VOC capture and VOC control efficiency of at least 80%.</li> <li><input type="checkbox"/> House animals in a tunnel ventilated house with mechanical ventilation.</li> <li><input type="checkbox"/> Implement an alternative mitigation measure(s), not listed above. <i>Please provide details on an attached Alternate Mitigation Measures supplemental application form.</i></li> </ul>
<p style="text-align: center;"><b>Solid Waste Mitigation Measures</b></p>	<p><b>Swine owners/operators which handle solid animal waste or separated solids animal waste stored outside the animal housing must select at least <u>one</u> of the following solid or separated solids animal waste mitigation measures:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Cover dry animal waste and separated solids outside the pens with a weatherproof covering from October through May except for times, not to exceed 24 hours per event, when wind events remove the covering.</li> <li><input type="checkbox"/> Remove animal waste from the facility within 72 hours of removal from the pens or corrals.</li> <li><input type="checkbox"/> Use a dry animal waste handling system, such as stockpiles or solid land application, instead of a liquid system such as a flush system.</li> <li><input type="checkbox"/> Compost animal waste removed from pens with an aerated static pile vented to a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%.</li> <li><input type="checkbox"/> Store all removed animal waste in an enclosure vented to a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%.</li> <li><input type="checkbox"/> Send at least 51% of the animal waste removed from site to a digester with a VOC control device with an overall VOC capture and VOC control efficiency of at least 80% control efficiency.</li> <li><input type="checkbox"/> Implement an alternative mitigation measure(s), not listed above. <i>Please provide details on an attached Alternate Mitigation Measures supplemental application form.</i></li> </ul>

<p style="text-align: center;"><b>Liquid Waste Mitigation Measures</b></p>	<p><b>Swine owners/operators which handle liquid animal waste must select at least <u>one</u> of the following liquid animal waste mitigation measures:</b></p> <p><b>Please note, only one of the following <u>two</u> measures will count towards the <u>one</u> required for this category.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Use phototrophic lagoon. (Please note: Testing per Section 7.2 of Rule 4570 will be required.)</li> <li><input type="checkbox"/> Use an anaerobic treatment lagoon. (Please note: Testing per Section 7.2 of Rule 4570 will be required.)</li> </ul> <p><b>Please note, only one of the following <u>two</u> measures will count towards the <u>one</u> required for this category.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Use an aerobic lagoon. (Please note: Testing per Section 7.2 of Rule 4570 will be required.)</li> <li><input type="checkbox"/> Use a mechanically aerated lagoon. (Please note: Testing per Section 7.2 of Rule 4570 will be required.)</li> </ul> <p><b>Please note, any of the following <u>seven</u> measures may be selected.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Manage the facility such that there are no lagoons at the facility. (Lagoons are defined as a basin constructed, maintained, and operated to store and treat animal waste. This does not include basins primarily used to collect runoff and stormwater.)</li> <li><input type="checkbox"/> Remove solids from the waste system with a solid separator system, prior to the waste entering the lagoon.</li> <li><input type="checkbox"/> Maintain lagoon pH between 6.5 and 7.5.</li> <li><input type="checkbox"/> Maintain organic loading in the lagoon such that the total solids are less than 3.5 mg (dry weight)/mL, or total volatile solids are less than 3.5 mg/mL.</li> <li><input type="checkbox"/> Use additional non-standard equipment or chemicals on the solid separator system, such as roller or screw presses or chemical coagulants and flocculants, that increase the percent of solid separation achieved by the separator and that is approved by the APCO, ARB, and EPA.</li> <li><input type="checkbox"/> Cover the lagoon or storage pond and vent to a VOC control device with an overall VOC capture and VOC control efficiency of at least 80%.</li> <li><input type="checkbox"/> Implement an alternative mitigation measure(s), not listed above. <i>Please provide details on an attached Alternate Mitigation Measures supplemental application form.</i></li> </ul>
<p style="text-align: center;"><b>Land Application Mitigation Measures</b></p>	<p><b>Swine owners/operators which land apply dry or liquid animal waste must select at least <u>two</u> of the following land applied dry or liquid animal waste mitigation measures:</b></p> <p><b>Please note, only one of the following <u>two</u> measures will count towards the <u>two</u> required for this category.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Allow liquid animal waste to stand in the fields no more than 24 hours after irrigation.</li> <li><input type="checkbox"/> Apply no liquid animal waste.</li> </ul> <p><b>Please note, only one of the following <u>two</u> measures will count towards the <u>two</u> required for this category.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Apply no solid animal waste with a moisture content of more than 50%.</li> <li><input type="checkbox"/> Apply no solid animal waste.</li> </ul> <p><b>Please note, any of the following <u>three</u> measures may be selected.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Land incorporate all solid animal waste within 72 hours of removal from animal housing.</li> <li><input type="checkbox"/> Only apply solid or liquid animal waste that has been treated with an anaerobic treatment lagoon, aerobic lagoon or anaerobic digester system.</li> <li><input type="checkbox"/> Implement an alternative mitigation measure(s), not listed above. <i>Please provide details on an attached Alternate Mitigation Measures supplemental application form.</i></li> </ul>